XIV. *Eclipſis Solis obſervata* Vitembergæ Saxonum, *die* IV. Aug. *St. N. die* XXIV. Julii *St. Vet. A.* CIↃDCCXXXIX. *poſt merid. a* Jo. Friderico Weidlero.

Phaſes creſcentes.

	Hor.	Min.	Sec. *p. m.*
Initium	4.	15.	30.
Digitus I.		22.	00.
Digiti II.		29.	30.
III.		35.	30.
IV.		40.	00.
V.		47.	30.
VI.		55.	40.
VII.	5.	2.	00.
VIII.		9.	00.
IX.		24.	40.

Phaſes decreſcentes.

VIII.	5.	35.	30.
VII.		43.	40.
VI.		50.	30.
V.		56.	00.
IV.	6.	2.	45.
III.		8.	40.
II.		14.	00.
I.		20.	45.
Finis		27.	20.

Vide Typum hujus Eclipſeos ad Fig. 3. TAB. II.

Ad

Ad Figuram 4. Tab. II.

Obſervatio Immerſionis & Emerſionis *macularum, quæ tempore eclipſeos in diſco ſolis conſpicuæ fuerunt.*

Immersiones.		H.	M.	S.
Appulſus Lunæ ad maculam	(*a*)	4.	34.	35.
Tegitur tota macula	(*a*)	4.	34.	45.
Appulſus Lunæ ad maculam	(*d*)	5.	1.	30.
——————ad maculam	(*e*)	5.	5.	20.
——————ad maculam	(*b*)	5.	7.	15.
Immerſio totalis	(*b*)	5.	10.	00.
Appulſus Lunæ ad maculam	(*c*)	5.	16.	30.
Tegitur tota macula	(*c*)	5.	18.	00.
Emersiones.				
Incipit emergere macula	(*b*)	5.	30.	50.
Medium emerſionis	(*b*)		32.	30.
Emerſio totalis	(*b*)		34.	00.
Emerſio incipiens maculæ	(*c*)		39.	00.
Medium emerſionis	(*c*)		39.	50.
Emerſio totalis	(*c*)		40.	40.
Emerſio incipiens	(*a*)		41.	00.
Emerſio totalis	(*a*)		41.	40.
Emerſio	(*d*)	6.	4.	30.
Emerſio	(*e*)		6.	15.

Annotationes.

1. Figura 3. Tab. II. Siſtit ſolis diſcum recto ſitu, qualem helioſcopium foris adſpicientibus oſtendit.

2. Figura

2. FIGURA 4. TAB. II. Repræſentat maculas ſolis eo ſitu, quem ſub principium deliquii habuere, quarum immerſio & emerſio durante eclipſi obſervata fuit.

3. Luna ſubiit ſolem circa gradum 102. a Zenith computatum: diſceſſit a ſole circa 53. gradum, ab eodem Zenith numeratum.

4. Tempore maximæ obſcurationis lunæ orbis non plane niger, ſed puniceo colore tinctus per teleſcopium apparuit. Maculæ tamen lunæ diſtingui non poterant.

5. Margo lunæ, parte ſiniſtra, quæ in meridiem vergebat, circa tempus maximæ obſcurationis, montium jugis diſtinguebatur, qui etiam in imagine, per teleſcopium picta, cernebantur. Reliquus margo ſub ſole conſpicuus æqualis.

6. Durante tota eclipſi Lunæ peripheria nuda apparuit, abſque nebula, vel nube, quæ in aliis quandoque eclipſibus eidem imminet. Circa finem tamen, cum unus circiter ſolaris diſcum digitus adhuc occultaretur, motus lucis ſolaris vehemens in margine Lunæ aſpero notabatur.

7. Denique prætermittendum non duco, quod amicus, harum rerum probe gnarus, qui per Teleſcopium Aſtronomicum IX pedum ſolem intuebatur, circa hor. IV. 31 min. in obſcuro Lunæ diſco lucem aliquam, inſtar fulguris, celeriter huc illuc in tenebris diffuſam, animadverterit: & quod idem obſervator circa horam V. min. 50 toti adſtantium coronæ affirmaverit, a ſe tum ter talia fulgura ſubito enitentia iterum conſpecta fuiſſe.

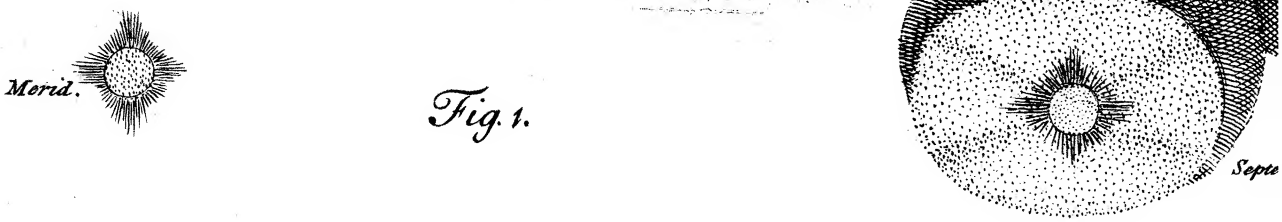


Fig. 1.

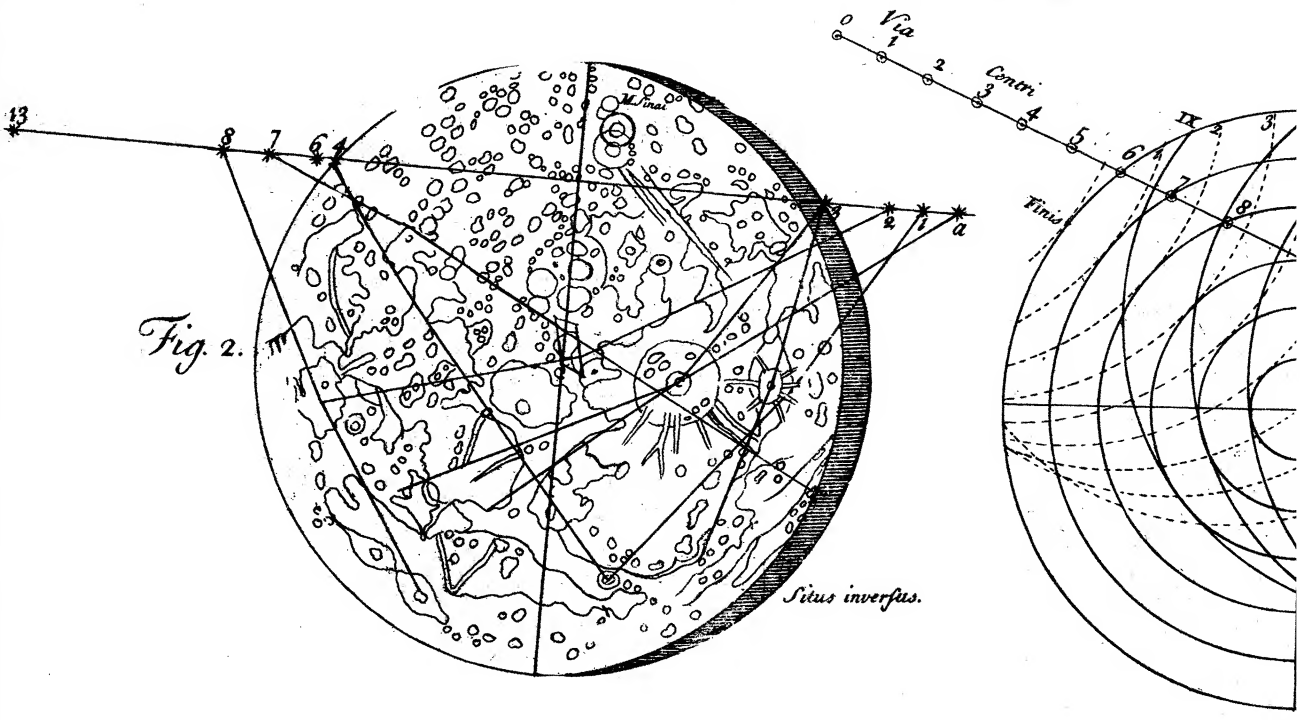


Fig. 2.

Scala Minutorum Gradus.

10 5 0 10 20

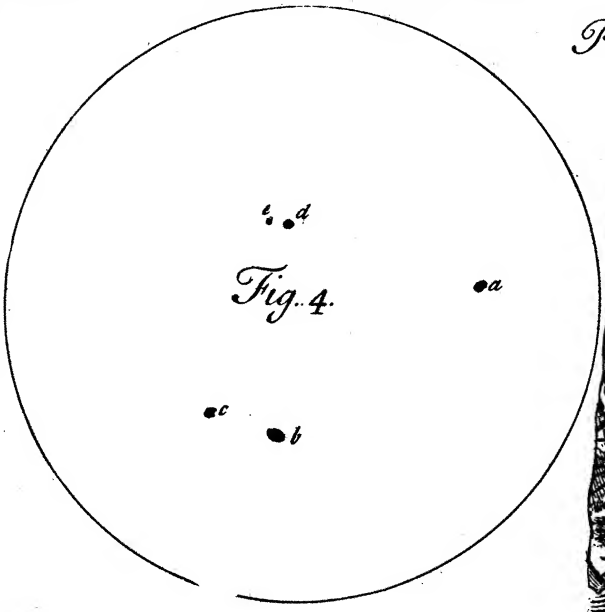


Fig. 4.

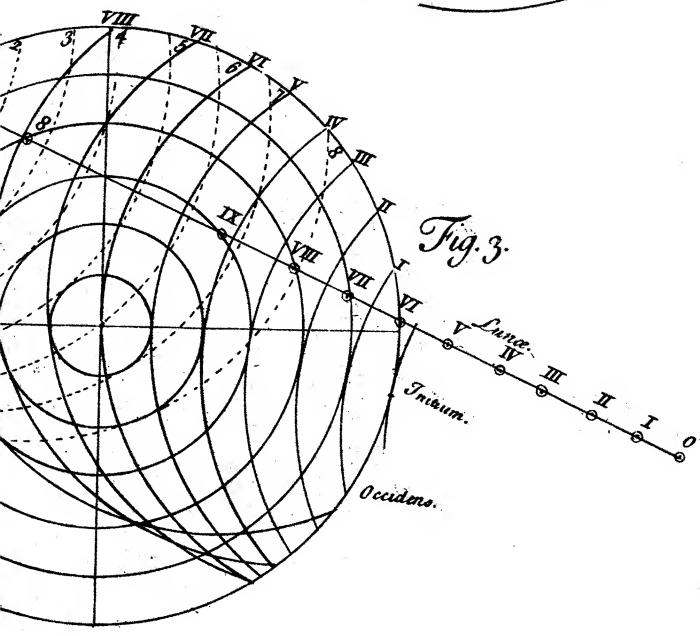


Fig. 3.

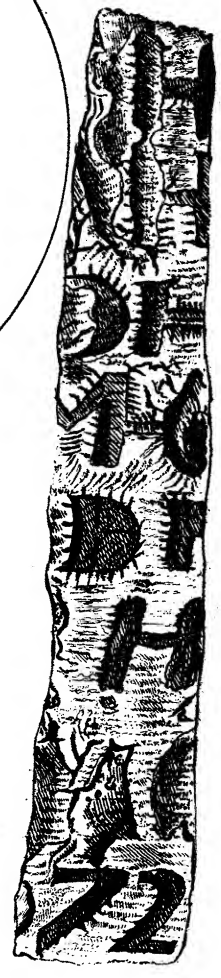
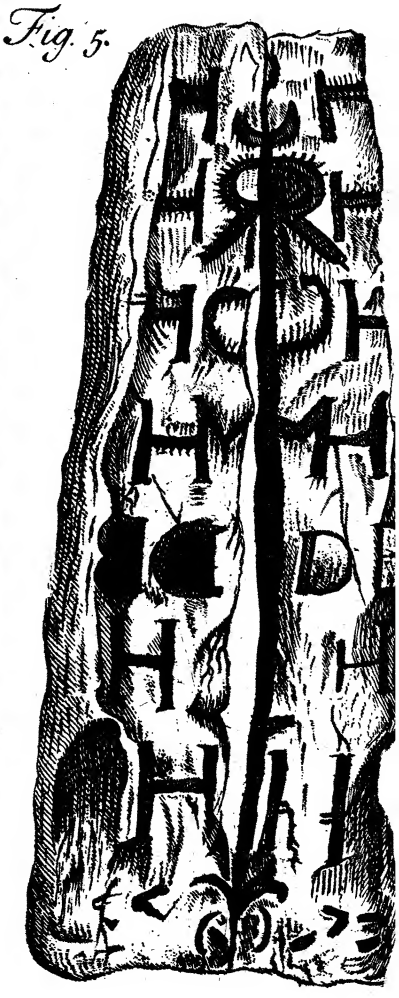


Fig. 5.



TAB. II.

Myndt Sculp.

Mercur
Fig. 1
Saturnus

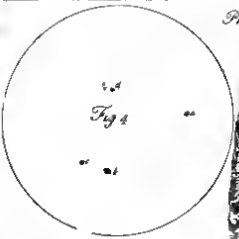


Fig. 4

Fig. 5.

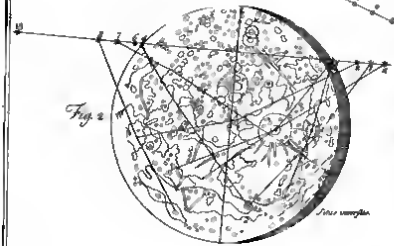


Fig. 2
Sinus roris fluctus

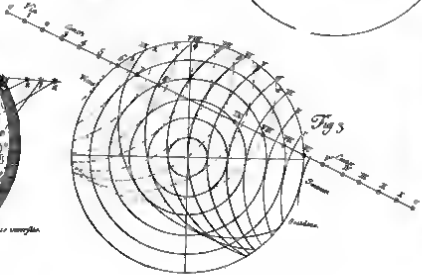


Fig. 3
Scala Minutorum Graduum.